

P 89

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25 June 1954

MEMORANDUM FOR: THE RECORD

SUBJECT : Project Monitor at [REDACTED]

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1. Time and place of meeting: 16 and 17 June 1954 at the [REDACTED]

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2. Attendance: [REDACTED]

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3. Purpose: To investigate the status of P-77 and P-89 currently being worked on by [REDACTED]

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4. Discussion:

a. The Portable Record Amplifier project has been delayed by the decision not to wait for the previously constructed mechanical tape transport mechanism built by TSS/ASD. [REDACTED] project engineer for this amplifie50X1 project, will install the amplifier in a standard tape transport mechanism and the project will then be closed if no further interest is shown in this device.

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c. Delivery of 5 each time signal radios will be made on 10 July. Design of a proposed 5, 10, and 15 mc time signal radio is under consideration by [REDACTED] project engineer for this project. It is planned that his proposal will be written shortly after the five WWV (5 mc) radios are completed.

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d. The Microphone Preamplifier project is now held in abeyance pending the outcome of the next APD panel meeting. A memorandum from the undersigned to the C/TSS/APD/EEB dated 10 June 1954 requests that the panel indicate whether or not production of this item should be initiated at this time. Subsequent to the next APD panel meeting, [REDACTED] will be told of our wishes for this project.

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e. Progress on the component parts for the Transistorized Sound-D-Tech Kit (P-89) can be summarized as follows:

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DOCUMENT NO. _____
 NO CHANGE IN CLASS. ☐
 L: DECLASSIFIED
 CLASS. CHANGED TO: TS S C 2011
 NEXT REVIEW DATE: _____
 AUTH: HR 70-2
 DATE 11/01/91 REVIEWED 037169

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1) The 90 db amplifier is completed (10 each) and now undergoing temperature and humidity testing at the [redacted] The amplifiers have not been potted as yet.

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2) The Metal Detector should be completed by 25 June 1954. Suggestions were made by the undersigned which delayed the finalizing of this unit. It was suggested that provision be made for holding the detector easily in hand and that provision be made for operating the unit on the end of a telescoping rod, thus providing the operator accessibility to out-of-reach areas where hidden microphones could be planted. It was requested that a diagram of the detectable area of the [redacted] kit operating with the 90 db amplifier be made and compared to a diagram of the detectable area of the old metal detector used with the BASS-3 amplifier. A graph of the effective range was also requested.

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3) Work on the telephone induction coil is being delayed by slow procurement of parts for this unit. Drawings and operating instructions are being outlined in the interim.

4) The rf tuner (and probe attachment) is designed and now being miniaturized. Work is being done to develop an effective fm probe to complement the recently designed am probe.

f. No progress has been made on the general problem of the Miniature Remote Controlled Radio Switch. [redacted] report was re-delivered to him with [redacted] letter of 28 May 1954. TSS/APD is awaiting re-submission of [redacted] technical proposal. [redacted] has mentioned that the best relay that can be procured at this time requires 60 mw for operation and will switch 1 ampere at 28 volts.

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g. Frequency response curves for the Shure MC-10 and MC-11 microphones were delivered to TSS/APD and subsequently re-delivered to TSS/ASD. The MC-11 gives 6 db gain over the MC-10. A Remler microphone and two crystal wrist-watch microphones were delivered for evaluation and inspection, respectively.

h. [redacted] and the undersigned discussed the problems involved in the filing of patent disclosures. It was agreed that a disclosure section would be added as a part of the monthly reports. Ideas and inventions which TSS/APD wants to follow up on can then be discussed with [redacted] Legal Counsel for TSS. The May monthly report was delivered at this time.

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being used as a receiver. The modification mentioned above is done by adding capacitance to the rf, antenna and oscillator tuning condensers. A radio adaptor was completed and demonstrated. At present, it appears as if it might be wiser to build a special receiver for the picture frame transmitter. No decision in this respect has yet been made since the undersigned believes more testing is required before making a final decision. The modified portable radio has some advantages from a security point of view.

j. Minutes of the [] on 16 March have been delivered and filed within TSS/APD. 50X1

k. [] has been instructed to improve upon the [] similar to those which were delivered to TSS/APD for forwarding to TSS/ASD. A critique of the first 4 transmitters was delivered to [] and it is expected that a similar critique will be given to [] on the second 4 transmitters. 50X1 50X1

l. After coordinating the matter with USAF, the [] transistorized receiver and progress reports Nos. 26388A, 26388B, 26388C, and Commo's evaluation were handed to [] for his staff. This was done in the hope that [] would then be informed on the progress that has been made at the [] 50X1 50X1 50X1 50X1

m. A meeting was arranged with [] in New York City on the subject of [] building a transistorized transmitter to operate from a 100 mw rf source. This meeting was held on Friday, 18 June 1954. The minutes of this meeting are filed in the P-77 project file. 50X1 50X1

5. Actions:

a. [] 50X1

- 1) Build five WWV time signal radios
- 2) Write proposal on a 5, 10, and 15 mc time signal radio
- 3) Construct a 74 mc miniature, transistorized transmitter
- 4) Complete and deliver a prototype of a transistorized Sound-D-Tech Kit
- 5) Complete and deliver a prototype of an oscillator and receiver [] 50X1
- 6) Complete and deliver a 490 KC transmitter and accompanying receiver and radio adaptor
- 7) Rewrite proposal on remote controlled radio switch
- 8) Return 3 each 80 db amplifiers submitted for repairs

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9) Continue to submit new transistor test data

10) Complete and deliver one portable record amplifier mounted on conventional tape transport mechanism

b. TSS/APD/EEB

1) Inform of outcome of APD panel action on microphone preamplifiers

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2) Deliver critique on 4 each 110 volt transmitters to

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3) Draft specifications for Sound-D-Tech Kit

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TSS/APD

Distribution:

P-77 - Orig.

P-89 - 1

Chrono - 1

- 1

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